Wonderful Communication, Mobile Life.

Welcome to HUAWEI E220 HSDPA USB Modem.

HUAWEI E220 HSDPA USB Modem

User Manual

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Safety Precautions

Before using the wireless device, please read the safety precautions carefully and let your children know these, so that you can use your wireless device correctly and safely. For details, see the section "Warnings and Precautions".

	Do not switch on your wireless device when it is prohibited to use wireless device or when the wireless device may cause interference or danger.
	Do not use your wireless device while driving.
	Follow any rules or regulations in hospitals and health care facilities. Switch off your wireless device near medical apparatus.
	Switch off your wireless device in aircraft. The wireless device may cause interference to control signals of the aircraft.
	Switch off your wireless device near high-precision electronic devices. The wireless device may affect the performance of these devices.
	Do not attempt to disassemble your wireless device or its accessories. Only the qualified personnel are allowed to service or repair the wireless device.
	Do not place your wireless device and its accessories in containers with strong electromagnetic field.
	Do not place magnetic storage media near your wireless device. Radiation from the wireless device may erase the information stored on them.
	Do not put your wireless device in a high-temperature place or use it in a place with flammable gas such as a gas station.
	Keep your wireless device and its accessories away from children. Do not allow children to use your wireless device without guidance.
	Observe any laws or regulations on the use of wireless device. Respect others' privacy and legal rights when using your wireless device.

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1 Overview

Welcome to HUAWEI E220 HSDPA USB Modem (hereinafter referred to as E220). With E220, you can easily:

- Access the Internet
- Send or receive text messages
- Manage contacts

2 Packing List

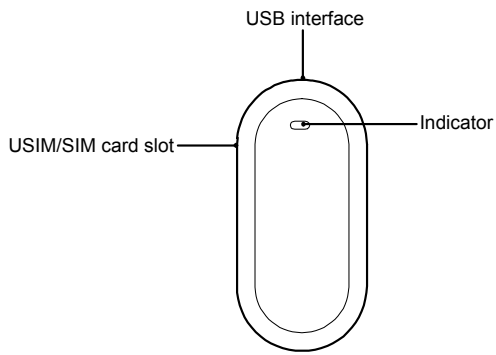
The E220 package box contains the following items:

- One E220 HSDPA USB Modem (including a PDF document of *HUAWEI E220 HSDPA USB Modem User Manual* and a setup program)
- Two USB cables
- *HUAWEI E220 HSDPA USB Modem Quick Start*

3 Getting Started

Getting to Know Your E220

The following figure shows the indicators and interfaces of E220.



Note:

The figure is for your reference only.

Indicator

This indicator indicates the status of E220.

Indicator Status	Description
Off	E220 is powered off.
Blinking twice every 2.7 seconds (green)	E220 is searching for a network or no network is available.

Indicator Status	Description
Blinking once every 2.9 seconds (green)	The GSM network is normal.
Blinking once every 2.9 seconds (blue)	The WCDMA network is normal.
On (green)	The GPRS data service is established.
On (cyan)	The HSDPA data service is established.
On (blue)	The WCDMA data service is established.

Computer Configuration Requirements

To use E220, your PC is required to have:

- CPU: Pentium 4, 1 GHz or above
- Memory: 128 MB RAM or above
- Hard disk: 50 MB or above
- Operating system: Windows XP or Windows 2000
- USB modem interface: USB 2.0 full speed
- Display resolution: 800 × 600 or above; 1024 × 768 is recommended

Make sure that the configuration of your PC meets the requirements. Otherwise, improper configuration may degrade the performance of your PC.

Note:

- For Windows XP, it is recommended to install patches such as **Service Pack 2** or above.
- For Windows 2000, it is recommended to install patches such as **Service Pack 4** or above.
- Before connecting E220 to the PC, power on the PC. Otherwise, the installation may be affected.
- The installation procedures vary with the operating system.

4 Introduction to Connect

Launching Connect

1. Connect E220 to the computer and Connect is auto launched.
2. If you are required to enter the Personal Identification Number (PIN) code, enter the correct one and click **OK**.
   If you enter wrong PIN codes three times consecutively, your USIM/SIM card is blocked. In this case, use the PIN Unblocking Key (PUK) code to unblock it.
   If you enter wrong PUK codes ten times consecutively, your USIM/SIM card is disabled. In this case, contact your service provider.

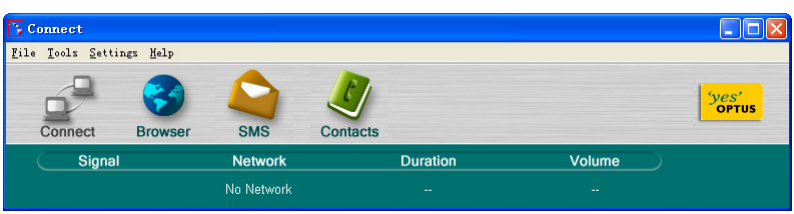
Note:

The service provider provides the PIN code and the PUK code. For details about how to modify, enable or disable the PIN code, refer to "Managing the PIN Code".

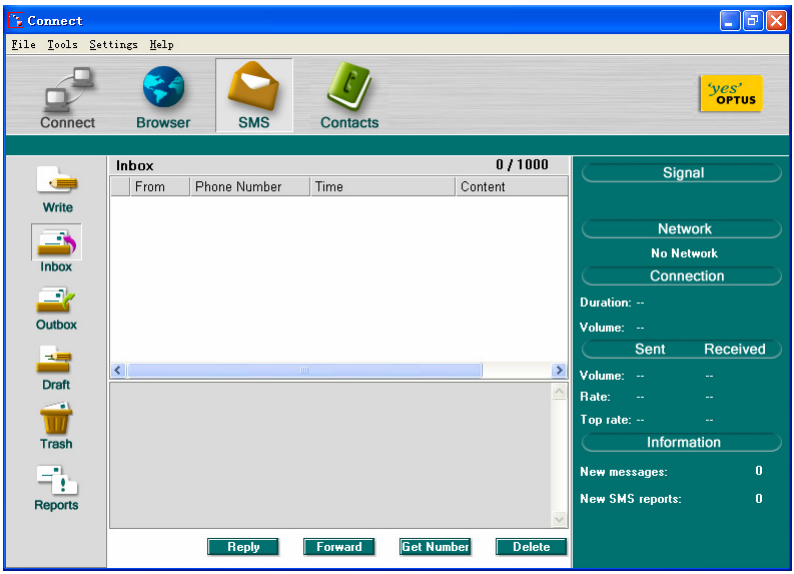
Introduction to the Home Screen

Overview of the Home Screen

After Connect is launched, the home screen is displayed as follows:



You can maximize the screen.



Icons and Shortcut Keys

The following table lists the icons and corresponding shortcut keys of Connect.

Icon/Shortcut Key	Description
/F2	Connect to/Disconnect from the network.
/F3	Launch the IE.
/F5	Display the **SMS** interface.
/F6	Display the **Contacts** interface.

Status Information

The status information shown on the right panel varies with the ongoing service. The following two tables list the status information and description.

When the screen is in the minimized status:

Status Information	Description
Signal	The network type and signal strength. The more the bars are, the stronger the signal strength is.
Network	Service provider information.
Duration	The duration of the current data connection.
Volume	The volume of the current data connection.

When the screen is in the maximized status:

Status Information	Description
Signal	The network type and the signal strength.
Network	Service provider information.
Connection	The current connection information: • Duration • Volume • Sent volume, received volume, rate, and the top rate
New messages	The number of new messages. If there is a new message, the number blinks.
New SMS reports	The number of new message reports. If there is a new message report, the number blinks.

5 Menus

1 File
- 1.1 Connect/Disconnect
- 1.2 Import Contacts
  - 1.2.1 From File
  - 1.2.2 From USIM/SIM Card
- 1.3 Export Contacts
  - 1.3.1 To File
  - 1.3.2 To USIM/SIM Card
- 1.4 Import Message from USIM/SIM Card
- 1.5 Exit

2 Tools
- 2.1 Open Browser
- 2.2 SMS
- 2.3 Contacts
- 2.4 Volume Statistic
- 2.5 Diagnostics

3 Settings
- 3.1 Choose network
  - 3.1.1 Auto
  - 3.1.2 Manual
- 3.2 Choose connection type

3.2.1 GPRS Preferred
3.2.2 3G Preferred
3.2.3 GPRS Only
3.2.4 3G Only
3.3 Band Selection
3.3.1 All Band
3.3.2 GSM900/1800/WCDMA2100
3.3.3 GSM1900
3.4 Modify PIN code
3.5 PIN Code Protection
3.5.1 Validate
3.5.2 Enable
3.5.3 Disable
3.6 Options
3.7 SMS Settings
3.8 Network Connection Settings
4 Help
4.1 HUAWEI Online Support
4.2 About

6 Internet Service

Network Connection Settings

Creating a Profile

Select **Settings** > **Network Connection Settings…**. Then do the following:

Step	Procedure
1	Click **New**.
2	Enter the profile name.
3	Enter the APN, IP, authentication, DNS, WINS, and authentication protocol.
4	Click **Save**.

Note:

For details of network connection settings, consult your service provider.

Deleting a Profile

Select **Settings** > **Network Connection Settings…**. Then, do the following:

Step	Operation
1	In the **Choose Profile Name** field, select the profile.
2	Click **Remove** > **OK**.

Modifying a Profile

Select **Settings** > **Network Connection Settings…**. Then, do the following:

Step	Operation
1	In the **Choose Profile Name** field, select the profile.
2	Click **Modify**.
3	Modify the profile.
4	Click **Save**.

Accessing the Internet

You can access the Internet through a 3G or GPRS connection. Select **Settings** > **Network Connection Settings…**. Then do the following:

Step	Operation
1	In the **Choose Profile Name** field, select the profile and click **OK**.
2	Click to establish the 3G connection or the GPRS connection.
3	After a prompt is displayed indicating that the connection is established, click or launch the browser of the operating system. Then you can access the Internet.
4	Click to disconnect the connection.

When the connection is established, details of the network connection are displayed as follows:

- The current connection duration
- The data volume of the current connection
- The volume, rate and the top rate of the sent and received data

Volume Statistic

You can view the details of the volume statistic.

Select **Tools** > **Volume Statistic…** to view:

- **Last Volume Statistic**: the volume of the last connection, including the sent volume, the received volume, and the duration
- **Total Volume Statistic**: the volume of all connections, including the sent volume, the received volume, and the duration
- **Last Reset Time**: the last reset time
- **Reset**: Click **it to** reset

Note:

- The volume statistic is for your reference only.
- If you do not perform the reset operation, the last reset time is null.

7 SMS

Sending or Receiving a Message

Creating a Message

Click or select **Tools** > **SMS**, the **SMS** interface is displayed.

Step	Operation
1	Click **Write**, and the **Write** interface is displayed.
2	Enter the phone number by one of the following ways: • Enter the phone number: In the **Contacts** field, enter the phone number and use the semicolon to separate phone numbers. • Select the contact: Click **Contacts**. Select one or more contacts and click **OK**. In the pop-up dialog box, select the phone numbers and click **OK**. To select several contacts, select the **Apply to all items** check box to simplify the procedures.
3	Write the message. On the upper right corner of the interface, the number of remaining characters and the number of the message is split are displayed.
4	• Click **Send** to send the message. After the message is sent, it is auto saved to the Outbox. If the sending fails, a prompt is displayed asking whether to send it again. If you cancel the sending, the message is auto saved to the Outbox. • Click **Save** to save the message to the Draft. • Click **Clear** to clear the phone number and the message.

Note:

- To select several contacts, press and hold the Shift key or the Ctrl key.
- Connect supports the group sending function. You can send a message to up to 20 phone numbers.
- Each message can contain 70 Chinese characters or 160 English letters. If a message contains more than 70 Chinese characters or 160 English letters, it is split into several messages and sent one by one.
- You can follow the above-mentioned two ways to enter the phone number as the message recipient.

Inbox

The Inbox stores received messages. It can store up to 1,000 messages.

- If the Inbox is full and there is a new message, the oldest message is auto moved to the Trash.
- If there is an unread message, the number is displayed on the right panel of the home screen.

On the **SMS** interface, click **Inbox** to access the Inbox.

Viewing a Message

1. You can view a message in the Inbox.

Step	Operation
1	Click or select **Tools** > **SMS**. The **SMS** interface is displayed.
2	Click **Inbox** to access the Inbox. Double-click the message to view details.

There are two types of icons in the Inbox:

- : Unread messages
- : Read messages

2. View a message upon its arrival.

If there is a new message, you can hear an alert tone or view an alert window. For details, refer to "System Settings".

- With the alert tone function enabled:

If there is a new message, you can hear the alert tone.

Step	Operation
1	Click or select **Tools** > **SMS**. The **SMS** interface is displayed.
2	Click **Inbox** to access the Inbox. Double-click the message to view details.

- With the alert window function enabled:

If there is a new message, you can see the alert window.

Click…	To…
View	View details of the message.
Close	Close the alert window.

Replying to a Message

You can reply to a message in the Inbox.

Step	Operation
1	Select or double-click the message to view details. Then click **Reply**.
2	The phone number of the sender is displayed in the **Contacts** field. You can edit the phone number.
3	Write the message.
4	Click **Send**.

Forwarding a Message

You can forward a received message.

Step	Operation
1	Select or double-click the message to view details. Then click **Forward**.

Step	Operation
2	Enter the phone number of the recipient, or click **Contacts** to select the contact.
3	Details of the message are displayed in the text box. You can edit it.
4	Click **Send**.

Deleting a Message

You can delete a received message.

Step	Operation
1	• Select one or more messages. • Double-click the message to view details.
2	Click **Delete**. The message is moved to the Trash.

Saving a Phone Number

You can save the phone number of a received message as a contact.

Step	Operation
1	Select or double-click the message to view details and click **Get Number**.
2	The **New** interface is displayed and the phone number of the message is displayed in the **Mobile Number** field.
3	Enter the information of the phone number.
4	Click **Save**.

Exporting a Message

You can export received messages to a file. The file must be .txt or .csv files.

Step	Operation
1	Select one or more messages.

Step	Operation
2	Right-click the window and select **Export to file**.
3	Select the path and enter the file name.
4	Click **Save**.

Locking/Unlocking a Message

To avoid unintentional deletion, you can lock a message in the Inbox. In addition, you can unlock a message.

Step	Operation
1	Select one or more messages.
2	Right-click the window and select **Lock** or **Unlock**.

Note:

A locked message is marked by .

Outbox

The Outbox stores sent messages. The Outbox can store up to 1,000 messages.

If the Outbox is full and there is a new message, the oldest message is auto moved to the Trash.

On the **SMS** interface, click **Outbox** to access the Outbox.

Viewing a Message

You can view a message in the Outbox.

Step	Operation
1	You can view all the messages in the Outbox.
2	Double-click the message to view details.

Sending a Message

In the Outbox, you can send a message.

Step	Operation
1	• Select or double-click the message to view details. Then click **Send**. • You can send a message to several recipients each time. Select several messages and click **Send**.
2	The phone number of the recipient is displayed in the **Contacts** field. You can edit the phone number.
3	Write the message.
4	Click **Send**.

Forwarding a Message

In the Outbox, you can forward a sent message.

Step	Operation
1	Select or double-click the message to view details. Then click **Forward**.
2	Enter the phone number of the recipient in the **Contacts** field, or click **Contacts** to select the contact.
3	Details of the message are displayed. You can edit the message.
4	Click **Send**.

Deleting a Message

You can delete a message.

Step	Operation
1	• Select one or more messages and click **Delete**. • Double-click the message to view details and click **Delete**.
2	The message is moved to the Trash.

Saving a Phone Number

You can save the phone number of a sent message as a contact.

Step	Operation
1	Select or double-click the message to view details and click **Get Number**.
2	The **New** interface is displayed and the phone number of the message is displayed in the **Mobile Number** field.
3	Enter the information of the phone number.
4	Click **Save**.

Exporting a Message

You can export sent messages to a file. The file must be .txt or .csv files.

Step	Operation
1	Select one or more messages.
2	Right-click the window and select **Export to file**.
3	Select the path and enter the file name.
4	Click **Save**.

Locking/Unlocking a Message

To avoid unintentional deletion, you can lock a message in the Outbox. In addition, you can unlock a message.

Step	Operation
1	Select one or more messages.
2	Right-click the window and select **Lock** or **Unlock**.

Note:

A locked message is marked by .

Draft

You can save a message as a draft. The Draft can store up to 1,000 messages.

If you save a message as a draft, only the content of the message is saved.

On the **SMS** interface, click **Draft**.

Editing a Message

You can edit a draft.

Step	Operation
1	• Select the draft and click **Edit**. • Double-click the draft.
2	On the **Write** interface, edit the draft and click **Send**, **Save**, or **Clear**.

Deleting a Message

You can delete a draft.

Step	Operation
1	Select one or more drafts and click **Delete**.
2	The draft is moved to the Trash.
3	Click **Save**.

Trash

The Trash stores messages removed from the Inbox, Outbox, and Draft. The Trash can store up to 1,000 messages.

If the Trash is full and there is a new message, the oldest message is auto deleted.

On the **SMS** interface, click **Trash**.

Restoring a Message

You can restore a message.

Step	Operation
1	Select one or more messages and click **Restore**.
2	The message is restored.

Deleting a Message

If you delete a message from the Trash, it is permanently deleted.

Step	Operation
1	Select one or more messages and click **Delete**.
2	Click **OK**.

Exporting a Message

You can export messages to a file. The file must be .txt and .csv files.

Step	Operation
1	Select one or more messages.
2	Right-click the window and select **Export to file**.
3	Select the path and enter the file name.
4	Click **Save**.

Reports

The Reports can store up to 1,000 delivery reports. If the Reports is full and there is a new report, the oldest report is auto deleted.

On the **SMS** interface, click **Reports**.

Step	Operation
1	Select one or more reports and click **Delete**.
2	Click **OK**.

Exporting a Report

You can export reports to a file. The file must be .txt or .csv files.

Step	Operation
1	Select one or more reports.
2	Right-click the window and select **Export to file**.
3	Select the path and enter the file name.
4	Click **Save**.

Message Import Management

You can import messages to Connect from the USIM/SIM card.

Step	Operation
1	Select **File** > **Import Message from USIM/SIM Card…**.
2	Messages are imported to the Inbox, Outbox, or Draft of Connect respectively.

SMS Settings

Select **Settings** > **SMS Settings** and the **SMS settings** interface is displayed.

Option	Description
Reports	You can enable or disable this function. With the function enabled, if you send a message successfully, you can receive a delivery report.
Use same SMS centre for reply	Set the recipient to use the same SMS center number to reply the message.

Option	Description
SMS Bearer Domain	Set the bearer domain of sending a message. • Circuit Switched (CS): messages are sent through the CS domain. • Packet Switched (PS): messages are sent through the PS domain.
Validity	Set the validity period for a message saved in the SMS center.
SMC Number	The SMS center number is supplied with the USIM/SIM card. After you insert the USIM/SIM card, the field is auto filled. If the field is null or you delete the number unconsciously, contact your service provider to retrieve the number.

Note:

If there is no capacity for delivery reports in the USIM/SIM card, the request status report function is invalid, contact your service provider for details.

8 Contacts

Connect can save up to 1,000 contacts.

You can create, modify, or delete contacts. You can send a message or make a call to the contact. You can also import or export contacts.

Managing Contacts

Click or select **Tools** > **Contacts**. The **Contacts** interface is displayed.

Creating a Contact

Do the following:

Step	Operation
1	Click **New**.
2	Enter the content in the **Name**, **Mobile Number**, **Home Number**, **Office Number**, **E-mail**, and/or **Comments** fields.
3	Click **Save**.

Modifying a Contact

Do the following:

Step	Operation
1	Select or double-click the contact and click **Edit**.
2	Modify the contact.

Step	Operation
3	Click **Save**.

Deleting a Contact

Do the following:

Step	Operation
1	Select one or more contacts. Then click **Delete**.
2	Click **OK**.

Sending a Message

You can send a message to a contact. Do the following:

Step	Operation
1	Select one or more contacts.
2	Click **Send**. Connect retrieves the phone number and the **Write** interface is displayed.
3	The phone number is displayed in the **Contacts** field. Write the message and click **Send**.

Searching for a Contact

You can search for a contact. Do the following:

Step	Operation
1	Click **Search**.

2	• Select a field item such as **Name**, **Mobile**, **Family**, **Office** or **E-mail** from the dropdown list in the **Condition** area. • Enter the content in the **Value** text box. • Select **Match Whole Word Only** and/or **Match Case** in the **Matching Type** field.
3	Click **Search Now** to start searching.
4	Click **Stop Search** to stop searching.

Importing/Exporting Contacts

Importing a Contact

You can import contacts to Connect from the USIM/SIM card or a file.

Importing a Contact from a File

You can import contacts to Connect from a file. The file must be .txt or .csv files.

Step	Operation
1	Select **File** > **Import Contacts** > **From File**.
2	In the **Open** dialog box, select the file.
3	Click **Open** to import the file to Connect.

Importing a Contact from the USIM/SIM Card

You can import contacts to Connect from the USIM/SIM card.

Step	Operation
1	Select **File** > **Import Contacts** > **From USIM/SIM Card**.
2	You can select: • **Move Import**: Contacts in the USIM/SIM card are deleted. • **Copy Import**: Contacts in the USIM/SIM card are retained.

3	Click **OK**. Then select **Mobile**, **Home** or **Office** and set whether to apply the operations to all items. Then click **OK**.
4	After the importing completes, a prompt is displayed to indicate the result.

Exporting a Contact

You can export contacts from Connect to the USIM/SIM card or a file.

Exporting a Contact to a File

Do the following:

Step	Operation
1	Select **File** > **Export Contacts** > **To File**. Then click **OK** in the pop-up dialog box.
2	In the **Save as** dialog box, enter the file name with .csv as its extension.
3	Click **Save**.

Exporting a Contact to the USIM/SIM Card

Do the following:

Step	Operation
1	Select one or more contacts.
2	Select **File** > **Export Contacts** > **To USIM/SIM Card**.
3	Click **OK**.
4	After the exporting completes, a prompt is displayed to indicate the result.

Note:

- If you do not select a contact, the function is unavailable.
- The number of contacts that can be saved is determined by the capacity of the USIM/SIM card.
- If the contacts you are exporting exceed the USIM/SIM card capacity, Connect auto stops the operation.

9 Settings and Information Query

Selecting the Network

E220 supports manual or auto search of the network. To set the search mode, select **Settings** > **Choose Network** and select either of the following options:

- Auto: E220 auto searches for a network and registers to the network.
- Manual: You can manually search for networks and select a network for E220 to register.

Selecting the Connection Type

Select **Settings** > **Choose Connection Type** to set the connect type.

Option	Description
GPRS Preferred	If possible, E220 selects the GPRS network.
3G Preferred	If possible, E220 selects the 3G network.
GPRS Only	E220 selects the GPRS network only.
3G Only	E220 selects the 3G network only.

Selecting the Band

You can set the working band for E220. After setting, E220 can work only in the preset working band.

Select **Settings** > **Band Selection**. Then you can select **All Band**, **GSM900/1800/WCDMA2100** or **GSM1900**.

Managing the PIN Code

The PIN code can protect the USIM/SIM card from unauthorized use. The PIN code is supplied with the USIM/SIM card. You can change your PIN code .Also you can set whether to enter the PIN code when E220 starts up.

Modifying the PIN Code

You can modify the PIN code. Do the following:

Step	Operation
1	Select **Settings** > **Modify PIN Code**.
2	Enter the current PIN code and the new PIN code, and then enter the new code again to confirm it.
3	Click **OK**.

Validating the PIN Code

After launching Connect, you can still use the PIN code validation function. Do the following:

Step	Operation
1	Select **Settings** > **PIN Code Protection**.
2	Select **Validate** to enable the PIN code validation function. For details, refer to the descriptions on page 5.

PIN Code Protection

You can enable or disable the PIN code when the E220 starts up.

Step	Operation
1	Select **Settings** > **PIN Code Protection**.

Step	Operation
2	Select **Enable** or **Disable**. Enter the PIN code. • Enable: You need to enter the PIN code when E220 starts up. • Disable: You do not need to enter the PIN code when E220 starts up.

System Settings

The system settings include the startup mode of Connect, the alert mode for messages, and the standby/hibernate mode of the PC and so on.

Select **Settings** > **Options**.

Setting Startup

.Click the **Startup** tab to set the following items

Option	Description
Launch application on Windows start up	Connect is launched along with the Windows.
Start main window minimized	The Connect window is minimized on startup.
Check the unread message(s) while starting	On launching, Connect checks the unread messages in the USIM/SIM card and E220.

Note:

Click **Default** to restore the settings to the default values, namely, only the **Check the unread message(s) while starting** check box is selected.

Setting SMS Alerts Function

Select the **SMS Alerts** tab to set the following items.

Option	Description
Alert window	Select the **Alert window** check box. If there is a new message, the alert window is displayed. You can: • Click **View** to view details. • Click **Close** to close the alert window.
Alert tone	After you select a sound file, if there is a new message, the sound file is played. • Click **Browse** to select the sound file. • Click **Play** to pre-listen to the sound file.

Note:

- The SMS sound files must be *.wav or *.mid files.
- If you click **Default**, all the items in the **Prompts** tab are restored to the default values. That is, both the **Alert window** check box and the **Alert tone** check box are selected.

Setting the Standby/Hibernate Mode

Click the **Standby/Hibernate** tab to set the following items.

Option	Description
Prevent Standby/Hibernate	Prevent the PC from turning to the standby or hibernate mode.
Allow Standby/Hibernate	Allow the computer to turn to the standby or hibernate mode.

Note:

If you click **Default**, the standby/hibernate status recovers to its default value, that is, allow standby or hibernate.

Diagnostic

You can inquire E220 and the USIM/SIM card.

Select **Tools** > **Diagnostics**:

- Messages in USIM/SIM Card: The format is "XX/YY". XX indicates the number of messages, and YY indicates the capacity of the USIM/SIM card.
- Contacts in USIM/SIM Card: The format is "XX/YY". XX indicates the number of contacts, and YY indicates the capacity of the USIM/SIM card.
- IMEI Number: the IMEI number of E220.
- API Version: the API version.
- Firmware Version: the board software version of E220.
- Hardware Version: the hardware version of E220.

10 Specifications

Item	Description
Technical standard	3GPP R5
USB interface standard	USB2.0 full speed standard
Radio system	• GSM/GPRS/EDGE: 900 MHz/1800 MHz /1900 MHz • HSDPA /WCDMA: 2100 MHz
Radio frequency band	GSM/GPRS/EDGE 900 MHz • UL: 880 MHz – 915 MHz • DL: 925 MHz – 960 MHz GSM/GPRS/EDGE 1800 MHz • UL: 1710 MHz – 1785 MHz • DL: 1805 MHz – 1880 MHz GSM/GPRS/EDGE 1900 MHz • UL: 1850 MHz – 1910 MHz • DL: 1930 MHz – 1990 MHz HSDPA/WCDMA 2100 MHz • UL: 1920 MHz – 1980 MHz • DL: 2110 MHz – 2170 MHz
Radio power output	• HSDPA/WCDMA 2100 MHz: Power Class 3, +24 dBm+1/-3 • GSM/GPRS 900 MHz: Power Class 4, +33 dBm±2 • GSM/GPRS 1800 MHz: Power Class 1, +30 dBm±2 • GSM/GPRS 1900 MHz: Power Class 1, +30 dBm±2 • EDGE 900 MHz: Power Class E2, +27 dBm±3 • EDGE 1800 MHz: Power Class E2, +26 dBm±3 • EDGE 1900 MHz: Power Class E2, +26 dBm±3

Item	Description
Services	Data service: • GSM CS: UL 9.6 kbit/s/DL 9.6 kbit/s • GPRS: UL 26.8 kbit/s/DL 53.6 kbit/s • EDGE: UL 118.4 kbit/s/DL 236.8 kbit/s • WCDMA CS: UL 64 kbit/s/DL 64 kbit/s • WCDMA PS: UL 384 kbit/s/DL 384 kbit/s • UL WCDMA/DL HSDPA: UL 384 kbit/s/DL 3.6 Mbit/s SMS service: GSM, GPRS, WCDMA, HSDPA, EDGE
Dimensions (D × W × H)	89.37 mm × 42.61 mm × 14.50 mm
Weight	About 50 g
Power supply method	Through two USB interfaces
Operating temperature	-10℃ to +55℃
Storage temperature	-40℃ to +70℃

11 FAQs

How to judge whether E220 is correctly connected to the PC?

After you connect E220 to the PC, two device icons are displayed in the device manager, namely, “HUAWEI Connect-3G Modem” and “HUAWEI Mobile Conncet-3G PC UI Interface”.

If a yellow exclamatory mark or other signs are displayed in front of the icons, it indicates that E220 is not correctly connected. You need to connect E220 again.

What to do if E220 fails to connect to the Internet?

1. Make sure that E220 is in the service area and the network signal is normal.
2. Make sure you have subscribed to the wireless access service. For details, consult your service provider.
3. If you have subscribed to the wireless access service, refer to "Internet Service" to configure the network settings.

Only part of the message is displayed after I use the “Paste” function to edit it. Why?

A text message can contain up to 1,000 characters. If the size of the pasted part exceeds the limit, the exceeding part is auto deleted.

When there is a new message, no alert window is displayed. Why?

Make sure that you have enabled the alert window function.

Select **Settings** > **Options**. Then select the **Prompt** tab and select the **Display alerts when a message is received** check box in **Message Alerts Settings**.

After Connect is launched, the system prompts “There are some unread messages in USIM/SIM card. Do you want to import them to the computer?” After I select “No”, what if I want to import the message?

Select **File** > **Import Message from USIM/SIM Card** to import messages to Connect from the USIM/SIM card.

I cannot paste the phone number. Why?

Only “0123456789#*+” is valid. Make sure that all digits of the phone number are valid.

12 Acronyms and Abbreviations

A

APN	Access Point Name

C

CPU	Central Processing Unit
CS	Circuit Switched

D

DL	Downlink
DNS	Domain Name Server

E

EDGE	Enhanced Data rates for Global Evolution

G

GPRS	General Packet Radio Service
GSM	Global System for Mobile communications

H

HSDPA	High Speed Downlink Packet Access

P

PS	Packet Switched

PIN	Personal Identification Number
PUK	PIN Unblocking Key

S

SIM	Subscriber Identity Module

U

UL	Uplink
USB	Universal Serial Bus
USIM	User Service Identity Module

W

WCDMA	Wideband Code Division Multiple Access
WINS	Windows Internet Name Service